



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Agency Interest No. 1376
Activity No.: PER19960013

Mr. J. A. Stroink
Refinery Manager
Chalmette Refining, L.L.C.
Post Office Box 1007
Chalmette, Louisiana 70044

RE: Part 70 Initial Operating permit, Fluidized Catalytic Cracking Unit and Alkylation Unit,
Chalmette Refinery, Chalmette Refining, L.L.C., Chalmette, St. Bernard Parish,
Louisiana

Dear Mr. Stroink:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2011 unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006

Permit No.: 3022-V0

Sincerely,

Chuck Carr Brown, Ph.D.

Assistant Secretary

SGQ

cc: EPA Region VI

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

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**AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**FLUIDIZED CATALYTIC CRACKING UNIT & ALKYLATION UNIT
AGENCY INTEREST NO. 1376
CHALMETTE REFINING, L.L.C., CHALMETTE REFINERY
CHALMETTE, ST. BERNARD PARISH, LOUISIANA**

I. Background

Chalmette Refining, L.L.C. (CRLLC) is a joint venture between ExxonMobil Corporation (EMOC) and Petroleos de Venezuela (PDV), the Venezuelan National Oil Company. Chalmette Refinery is located on the left descending bank of Mississippi River at Mile 89 above Head-of-Passes at Chalmette and is operated by EMOC. The facility operates under a consolidated State Permit No. 2500-00005-02 dated November 18, 1988. Other Permit Nos. 2226(M-3), 11/27/1996; and PSD-LA-199(M-4), 10/11/1993 were also issued in the past. Other permits were also issued since 1988. This permit deals with the Fluidized Catalytic Cracking Unit (FCCU) (Unit 78) and the Alkylation Unit (Alky) (Unit 79).

II. Origin

This review was initiated by an application and Emission Inventory Questionnaire (EIQ) submitted in October 14, 1996, an updated and revised application and EIQ dated November 14, 2005 for the FCCU and the Alky. Additional information as of January 12, 2005 was also received.

III. Description

Chalmette Refinery is an integrated crude operation (high conversion) which includes crude distillation, catalytic reforming, fluid catalytic cracking (FCC), hydrocracking, HF alkylation, delayed coking, and aromatics processing units. The refinery is capable of producing gasoline, diesel, benzene/toluene/xylene (BTX), distillates, and elemental sulfur as well as by-products such as petroleum coke and LPG.

Fluidized Catalytic Cracking Unit - This unit consists of a Reactor/Regenerator Section, a Fractionation Section, a Gas Contactor Section and a Waste Gas Section. The primary function of these sections are to upgrade the feed by cracking or breaking heavy hydrocarbon molecules into lighter and desirable hydrocarbon molecules suitable for use as motor gasoline or diesel blending components.

In the reactor/regenerator section the feed (gas oils, vacuum gas oils, hydrotreater gas oils, coker gas oils, and vacuum bottoms) is converted into high octane gasoline, fuel oils, olefin rich alky feed and sour gas fuels in a fluidized bed system in the presence of a catalyst. During the cracking process carbon deposits build up on the catalyst particles which are burned in the regenerator and the catalyst is recycled back to the reactor. In the fractionator section the converted process material are separated for sale and for reuse as feed for other units. In the gas contactor section the hydrocarbons from the overhead of

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the fractionator are separated and recycled back to the fractionator, sent to storage or sent to other units. In the waste gas section the regenerator off gas passes through four stages of cyclones to remove particulates. The gas is then cooled and treated in a wet gas scrubber with caustic to remove sulfur dioxide and particulates prior to release to the atmosphere.

Alkylation Unit – This unit consists of a Merox Section, Reaction Section and Distillation Section. The primary function of this unit is to combine low molecular weight olefins with isobutane to produce gasoline components (alkylates) of higher octane rating.

In the Merox section the olefin feed is contacted with caustic to remove sulfur compounds. In the reactor section the desulfurized hydrocarbon liquid is mixed with isobutane and contacted with hydrofluoric acid which acts as a catalyst to combine the light hydrocarbons into a gasoline boiling point product. In the distillation section the product is fractionated to produce alkylate and butane.

Chalmette Refining, L.L.C proposes to modify the facility by undertaking an Oxygen Enrichment Project. This project will be completed in two phases. The objective is to enrich the air sent to the regenerator with oxygen to improve combustion, increase unit conversion and thereby raise the unit capacity by approximately 5,000 barrels per day.

Phase 1: This will include the initial portion which consists of items that can be safely completed without a shutdown of units and outside of a turnaround. The modifications for Phase 1 are a) installation of piping from the existing oxygen header to the FCCU main air line and b) installation of associated controls and shutdown systems.

Phase 2: This will include items which will be completed during shutdown of units or during a turnaround and will encompass three minor projects: Reactor Stripper Internal Modifications, Slurry Pump Replacement (two new pumps with one being a spare), and Hot/Cold Feed Exchanger Installation. The modifications will include a) installation of closed coupled cyclones in the Reactor to improve unit conversion, b) replacement of Reactor head, cyclones, and plenum due to age deterioration, c) replacement of Regenerator head, cyclones and plenum due to age deterioration, d) replacement of Main Fractionator trays 1 through 12 to improve tower performance, e) installation of a vapor distributor in the Main Fractionator to improve tower performance, f) increasing orifice size of the spent catalyst slide valve in order to increase catalyst circulation, and g) performing other safety valve modifications/additions (thermal relief, set pressure changes, increasing size, etc.). This project is expected to be completed by the end of 2008.

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The modification to the FCCU will not affect any upstream emissions as the FCCU already operates at maximum capacity by utilizing purchased feedstock. The downstream Alkylation Unit and Gasoline Hydrotreater Unit (GHU) will receive more feed due to the FCCU modification. The Alkylation unit compensates purchased feedstock to run at maximum capacity if needed. This will reduce the purchased feedstock as needed. The GHU will experience some increase in feedstock and the heat duty will increase by approximately 3 MM BTU/hr. Since the GHU is not being modified the increase is considered as an incremental increase in emissions.

The project actual emissions increase is estimated in tons per year as follows:

<u>Pollutant</u>	<u>Project Emissions Increase</u>	<u>PSD Significance Levels</u>	<u>Netting Analysis Required</u>
PM ₁₀	6.98	15.00	No
SO ₂	18.36	40.00	No
NO _x	36.62	40.00	No
CO	90.37	100.00	No
VOC	8.89	40.00	No
H ₂ SO ₄	3.74	7.00	No

Permitted emissions from the FCCU and Alkylation Unit based on the current operating conditions which reflect the updated emission factors in tons per year are as follows:

<u>Pollutant</u>	<u>Emissions</u>
PM ₁₀	83.41
SO ₂	66.84
NO _x	467.65
CO	309.09
VOC	170.56
H ₂ SO ₄	43.64
2-Propenamide	0.002
Bromomethane	0.03
Hydrocyanic acid	0.01

IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NSPS, and NESHAP. Prevention of Significant Deterioration does not apply. The facility is a major source of toxic air

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pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The Air Toxic Compliance plan was approved on March 13, 1996, the LDAR provisions were approved on October 11, 1996 and the SOCMI HON wastewater provisions were approved on May 21, 1996. The facility has submitted a Part 1 application as required by the Clean Air Act Amendments 112(j).

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in The Advocate, Baton Rouge, Louisiana and The St. Bernard Voice, Arabi, Louisiana, on ***** **, 2006. Written and oral comments received during the comment period from the general public and organizations will be considered before issuing the permit. Copies of the public notice were mailed out to individuals on the mailing list maintained by Office of Environmental Services on ***** **, 2006. The proposed permit was sent to EPA via e-mail on ***** **, 2006.

Effects on Ambient Air

Dispersion Model Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration ($\mu\text{g}/\text{m}^3$)	Louisiana Air Quality Standard (NAAQS) ($\mu\text{g}/\text{m}^3$)
None			

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VII. General Condition XVII Activities

FCCU Equipment Maintenance/Preparation and Other Routine Activities	3800 events/yr
PM ₁₀	3.91 tons/yr
VOC	1.13 tons/yr
FCCU Vessel Maintenance Activities	100 events/yr
PM ₁₀	2.63 tons/yr
VOC	1.33 tons/yr
FCCU Planned Startup/Shutdown and Turnaround Activities	1050 events/yr
VOC	0.43 tons/yr
Alkylation Unit Equipment Maintenance/Preparation and Other Routine Activities	4700 events/yr
PM ₁₀	0.19 tons/yr
VOC	0.90 tons/yr
HF	0.03 tons/yr
Alkylation Unit Planned Startup/Shutdown and Turnaround Activities	600 events/yr
VOC	1.71 tons/yr
HF	0.01 tons/yr

VIII. Insignificant Activities

ID No.:	Description	Citation
-	Units Tanks (Less than 3,500 gals, 20 tanks)	LAC 33:III.501.B.5.A.3
-	Units Tanks (Less than 10,000 gals, 3 tanks)	LAC 33:III.501.B.5.A.4
-	Process Stream Analyzer Emissions	LAC 33:III.501.B.5.A.9
-	Catalyst Changing Operations	LAC 33:III.501.B.5.A.11

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																	
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2301	29*	51*	52	56	59
GRP031	FCC-Alky Units	1	1	1	1	1			1			1			1	1	1	1	1
EQT183	45, FCC Heater (F-7801)		1	1	1														2
EQT184	47, FCC Regenerator Flue Gas Scrubber Vent				1	1						2	1						1
EQT185	48, FCC Regenerator Auxiliary Burner (F-7802, Start Up Only)				1	1	1												2
EQT186	49, Alky Isostripper Reboiler (F-7901)				1	1	1												2
EQT187	71, FCC/Alky Catalyst (C-7804, C-7818, C-7829, C-7801)					1													1
EQT188	TK-7911, Chemical Tank 7911																		
FUG008	FE-FCC, FCC/Alky Process Fugitives							1		1									1
	Miscellaneous Process Vents (FCC/Alky Units)								1				2						1
	C-7948, Disulfide Separator Vent									1			2					2	

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																	
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2301	29*	51*	52	56	59
KEY TO MATRIX																			
1	-The regulations have applicable requirements which apply to this particular emission source.																		
	-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.																		
2	-The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.																		
3	-The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.																		
	Blank – The regulations clearly do not apply to this type of emission source.																		
*	The regulations indicated above are State Only regulations except for LAC 33:III.501.C.6 Limitations that specifically state that the regulation is Federally Enforceable.																		

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR		
		A	Db	Dc	J	Kb	XX	GGG	NNN	QQQ	A	J	M	V	FF	A	F	G	CC	UUU	5Ds	68
GRP031	FCC-Alky Units	1									1	1	1	1							1	1
EQT183	45, FCC Heater (F-7801)										1											2
EQT184	47, FCC Regenerator Flue Gas Scrubber Vent																					
EQT185	48, FCC Regenerator Auxiliary Burner (F-7802)																					
EQT186	49, Alky Isostripper Reboiler (F-7901)																					
EQT187	71, FCC/Alky Catalyst (C-7804, C-7818, C-7829, C-7801)																					
EQT188	TK-7911, Chemical Tank 7911																					
FUG008	FE-FCC, FCC/Alky Process Fugitives										1			1/2							1	
-	Miscellaneous Process Vents (FCC/Alky Units)																				1	
-	C-7948, Disulfide Separator Vent																					

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR										
		A	Db	Dc	J	Kb	XX	GGG	NNN	QQQ	A	J	M	V	FF	A	F	G	CC	UUU	5Ds	68	82	
KEY TO MATRIX																								
1	-The regulations have applicable requirements which apply to this particular emission source.																							
	-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.																							
2	-The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.																							
3	-The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.																							
	Blank – The regulations clearly do not apply to this type of emission source.																							

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
GRP031 FCC and Alky Units	Compliance Assurance Monitoring for Major Stationary Sources	At Renewal	40 CFR 64.5(a)(1)(ii)	The initial Part 70 permit application was determined to be complete before April 20, 1998
EQT183 45, FCC Heater (F-7801)	Emission Standard for Particulate Matter	Does not apply	LAC 33:III.1301.B	Heater indirectly heats process material
	Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	LAC 33:III.5105.B.3.a	Burns refinery fuel gas – Group 1 Virgin Fossil Fuel
	NESHAP, Subpart DDDDD – Boilers and Process Heaters	Does not apply	40 CFR 63.7506(b)	The facility has submitted the initial notification on March 10, 2005 as requirement of 40 CFR 63.9(b)
EQT184 47, FCC Regenerator Flue Gas Scrubber Vent	40 CFR 63, Subpart CC – NESHAP from Petroleum Refineries	Does not apply	40 CFR 63.641	Does not meet the definition of a miscellaneous process vent
EQT185 48, FCC Regenerator Aux. Burner	Emission Standard for Particulate Matter	Does not apply	LAC 33:III.1313.B	Heater indirectly heats process material
	Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	LAC 33:III.5105.B.3.a	Burns refinery fuel gas – Group 1 Virgin Fossil Fuel
	NESHAP, Subpart DDDDD – Boilers and Process Heaters	Does not apply	40 CFR 63.7575	The heater does not meet the definition of a process heater
EQT186 49, Alky Isostripper Reboiler (F-7901)	Emission Standard for Particulate Matter	Does not apply	LAC 33:III.1313.B	Heater indirectly heats process material
	Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	LAC 33:III.5105.B.3.a	Burns refinery fuel gas – Group 1 Virgin Fossil Fuel

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT186 49, Alky Isostripper Reboiler (F-7901) (Continued)	NESHAP, Subpart DDDDD – Boilers and Process Heaters	Does not apply	40 CFR 63.7506(b)	The facility has submitted the initial notification on March 10, 2005 as requirement of 40 CFR 63.9(b)
EQT188 TK-7911, Chemical Tank	Chapter 21, Control of Emissions of Organic Compounds – Storage of VOC NSPS, Subpart K, Ka, Kb – Standards for Petroleum Liquids and VOC Storage Tanks	Does not apply	LAC 33:III.2103.A	Vapor pressure of the material stored in the tank is less than 1.5 psia Tank does not store petroleum liquid and based on constructed date
	NSPS, Subpart QQQ – Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	Does not apply	40 CFR 60.690	Tank does not store oily wastewater
FUG005 FCC and Alky Process Fugitives	NSPS, Subpart QQQ – Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	Applicability Determination	40 CFR 60.690	Currently under review. Permittee shall update or modify the permit based on the determination made under the settlement.
	NESHAP, Subpart V – National Emission Standard for Equipment Leaks of VHAP	Does not apply	40 CFR 61.240(a)	Streams contain less than 10% by weight of VHAP
Miscellaneous Process Vents (FCC)	Control of Organic Compounds – Waste Gas Disposal	Exempt	LAC 33:III.2115	Subject to NESHAP, 40 CFR 63, Subpart CC and emissions routed to Flare No. 2, Permit No. 3016-V0

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.
[LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

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emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
 - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a

40 CFR PART 70 GENERAL CONDITIONS

written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

- a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 - 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 - 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 - 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 - 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 - 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

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- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT
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- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 14, 1996 and an updated and revised application and EIQ dated November 14, 2005, and additional information as of January 12, 2005.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

LOUISIANA AIR EMISSION PERMIT

GENERAL CONDITIONS

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December

LOUISIANA AIR EMISSION PERMIT
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- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

LOUISIANA AIR EMISSION PERMIT

GENERAL CONDITIONS

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:II.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:1.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 1376 Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

Also Known As:	ID	Name	User Group	Start Date
	2500-00005	Chalmette Refining LLC - Chalmette Refinery	CDS Number	05-27-1993
	2500-0005	Chalmette Refining LLC - Chalmette Refinery	Emission Inventory	03-03-2004
	13-5401570	Mobil Oil Corp	Federal Tax ID	08-07-2002
	LAD008179707	Chalmette Refining LLC	Hazardous Waste Notification	10-22-2002
PMT/CA		GPR4 Baselines	Hazardous Waste Permitting	10-01-1997
00597		Chalmette Refining	Inactive & Abandoned Sites	11-23-1999
LA0004260		WPC File Number	LPDES Permit #	05-22-2003
WP0569		WPC State Permit Number	LWDPS Permit #	06-25-2003
WP3391		WPC State Permit Number	LWDPS Permit #	06-25-2003
LA-2247-L01		Radioactive Material License	Radiation License Number	01-19-1999
6264		X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
GD-087-1774		Mobil Oil Corp	Solid Waste	01-08-2002
GD-087-1774		Site ID #	Solid Waste Facility No.	11-21-1999
19637		Exxon Co USA - Chalmette Terminal	TEMPO Merge	04-24-2001
36173		Mobil Oil Corp	TEMPO Merge	04-26-2001
38796		ExxonMobil Oil Corp - Chalmette Refining LLC	TEMPO Merge	12-16-2003
44916		Mobil Oil Corp - Chalmette Refinery	TEMPO Merge	05-22-2001
45047		Chalmette Refining LLC - A Delaware Ltd Liability Co	TEMPO Merge	03-28-2001
47202		Mobil Oil Corp - Chalmette Refinery	TEMPO Merge	10-02-2001
2500-0005		Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
70143TNNCL500WE		TRI#	Toxic Release Inventory	07-09-2004
01-269		Motor Fuel Delivery Certificate #	Underground Storage Tanks	08-07-2002
44-015380		UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-12-2002
Physical Location:		500 W St Bernard Hwy Chalmette, LA 70044-1007	Main FAX:	5042311365
Mailing Address:		PO Box 1007 Chalmette, LA 70044-1007	Main Phone:	5042311212
Related People:		Name	Phone (Type)	Relationship
		Robert Cooper	5042320276 (WP)	Katrina Response Contact for
		Chris Daigle	5042811956 (WP)	Radiation Safety Officer for
		Chris Daigle	5042811996 (WF)	Radiation Safety Officer for
		Chris Daigle	Chris.j.daigle@exxar	Radiation Safety Officer for

General Information

AI ID: 1376 Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-Y0

Air - Title V Regular Permit Initial

Related People:		Name	Mailing Address	Phone (Type)	Relationship
Chris Daigle		Chris Daigle	PO Box 1007 Chalmette, LA 70044-1007	5043015441 (CP)	Radiation Safety Officer for Solid Waste Billing Party for Haz. Waste Billing Party for Air Permit Contact For Accident Prevention Contact for Water Billing Party for Radiation Contact For Accident Prevention Billing Party for
Loretta Faustitch		Loretta Faustitch	PO Box 1007 Chalmette, LA 70044-1007	5042811305 (WP)	
Loretta Faustitch		Loretta Faustitch	PO Box 1007 Chalmette, LA 70044-1007	5042811305 (WP)	
Claudine Gorman		Claudine Gorman	PO Box 1007 Chalmette, LA 70044-1007	5042811989 (WP)	
Claudine Gorman		Claudine Gorman	PO Box 1007 Chalmette, LA 70044-1007	5042811989 (WP)	
Craig Joseph		Craig Joseph	PO Box 1007 Chalmette, LA 70044-1007	5042811544 (WP)	
Dana Keily		Dana Keily	PO Box 1007 Chalmette, LA 70044-1007		
Cathy Morlier		Cathy Morlier	PO Box 1007 Chalmette, LA 70044-1007		

Related Organizations:		Name	Address	Phone (Type)	Relationship
Chalmette Refining LLC		Chalmette Refining LLC	PO Box 1007 Chalmette, LA 70044-1007		Air Billing Party for Radiation License Billing Party for Owns
Chalmette Refining LLC		Chalmette Refining LLC	PO Box 1007 Chalmette, LA 70044-1007		Radiation Registration Billing Party for
Chalmette Refining LLC		Chalmette Refining LLC	PO Box 1007 Chalmette, LA 70044-1007		Accident Prevention Billing Party for UST Billing Party for Operates
ExxonMobil Oil Corp		ExxonMobil Oil Corp	500 W St Bernard Hwy Chalmette, LA 70043		
ExxonMobil Oil Corp		ExxonMobil Oil Corp	PO Box 1007 Chalmette, LA 70044-1007		
ExxonMobil Oil Corp		ExxonMobil Oil Corp	PO Box 1007 Chalmette, LA 70044-1007		

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery
 Activity Number: PER19960013
 Permit Number: 3022-V0
 Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT183	45, FCC Heater (F-7801)		70 MM BTU/hr	56 MM BTU/hr		8760 hr/yr (All Year)
EQT184	47, FCC Regenerator Flue Gas Scrubber Vent	625000 lb/hr	615000 lb/hr	615000 lb/hr		8760 hr/yr (All Year)
EQT185	48, FCC Regenerator Aux. Burner (F-7802)	55 MM BTU/hr	3 MM BTU/hr	3 MM BTU/hr		672 hr/yr (All Year)
EQT186	49, Alky Isostripper Reboiler (F-7901)	134 MM BTU/hr	90 MM BTU/hr	90 MM BTU/hr		8760 hr/yr (All Year)
EQT187	71, FCC-Alky Catalyst Handling	21.7 MM lbs/yr	21.7 MM lbs/yr	21.7 MM lbs/yr		8760 hr/yr (All Year)
EQT188	TK-7911, Chemical Tank	88075 gallons				8760 hr/yr (All Year)
EQT189	FCC-Miscellaneous Process Vents				Emissions routed to Flare No. 2, Permit No. 3016-V0	8760 hr/yr (All Year)
EQT190	C-7948, Distillate Separator Vent				Emissions routed to Alky Isostripper Reboiler, EQT186	(None Specified)
FUG008	FE-FCC, FCC-Alky Process Fugitives					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP031	FCC-Alky Units	EQT183 45, FCC Heater (F-7801)
GRP031	FCC-Alky Units	EQT184 47, FCC Regenerator Flue Gas Scrubber Vent
GRP031	FCC-Alky Units	EQT185 48, FCC Regenerator Aux. Burner (F-7802)
GRP031	FCC-Alky Units	EQT186 49, Alky Isostripper Reboiler (F-7901)
GRP031	FCC-Alky Units	EQT187 71, FCC-Alky Catalyst Handling
GRP031	FCC-Alky Units	EQT188 TK-7911, Chemical Tank
GRP031	FCC-Alky Units	EQT189 FCC-Miscellaneous Process Vents
GRP031	FCC-Alky Units	EQT190 C-7948, Distillate Separator Vent
GRP031	FCC-Alky Units	FUG8 FE-FCC, FCC-Alky Process Fugitives

Relationships:

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT183	45, FCC Heater (F-7801)	22.3	62750	5.25	149.9	650
EQT184	47, FCC Regenerator Flue Gas Scrubber Vent	46.6	170650	8.33	213.3	145
EQT185	48, FCC Regenerator Aux. Burner (F-7802)	46.6	170.65	8.33	213.3	145
EQT186	49, Alky Isostripper Reboiler (F-7901)	35.4	82500	5.68	190	460

Fee Information:

Subj Item Id	Multipplier	Units Of Measure	Fee Desc
AI1376	1	1,000 BBL/Day	0720 - Petroleum Refining (Rated Capacity)

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

FLUIDIZED CATALYTIC CRACKING UNIT & ALKYLATION UNIT

AGENCY INTEREST NO. 1376

CHALMETTE REFINING, L.L.C., CHALMETTE REFINERY

CHALMETTE, ST. BERNARD PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2301	29*	51*	52	56
GRP031	FCC-Alky Units	1	1	1	1	1		1		1		1		1	1	1	1	1
EQT183	45, FCC Heater (F-7801)		1	1	1											2		
EQT184	47, FCC Regenerator Flue Gas Scrubber Vent			1	1						2		1		1			
EQT185	48, FCC Regenerator Auxiliary Burner (F-7802, Start Up Only)			1	1	1									2			
EQT186	49, Alky Isostripper Reboiler (F-7901)			1	1	1									2			
EQT187	71, FCC/Alky Catalyst (C-7804, C-7818, C-7829, C-7801)				1									1				
EQT188	TK-7911, Chemical Tank 7911																	
FUG008	FE-FCC, FCC/Alky Process Fugitives							1		1					1			
-	Miscellaneous Process Vents (FCC/Alky Units)							1			2			1				
-	C-7948, Disulfide Separator Vent							1			2			2				

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

PM ₁₀				SO ₂				NOx				CO				VOC			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year		
EQT 183 45	0.42	0.52	1483	1.12	2.45	481	10.29	15.14	4508	2.24	5.77	0.81	0.30	0.38	1.32				
EQT 184 47	16.75	49.32	76137	12.28	68.14	5378	88.19	246.70	38625	64.43	300.25	28220	0.84	1.89	3169				
EQT 185 48	0.02	0.41	0.010	0.06	1.93	0.26	0.51	9.37	224	0.30	11.00	131	0.02	0.30	0.02				
EQT 186 49	0.67	1.00	2394	1.80	4.69	7483	7.78	15.37	3408	3.60	11.04	15374	0.49	0.72	2413				
EQT 187 71	4.72	18.89	5517										5.08	20.31	5556				
EQT 188 TK-7911													0.002		0.01				
FUG 008 FE-FCC													36.02	15478					

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 83.41 tons/yr
 SO2: 66.84 tons/yr
 NOx: 467.65 tons/yr
 CO: 309.09 tons/yr
 VOC: 170.56 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

1,3-Butadiene		2,2,4-Trimethylpentane		Acetaldehyde		Acrolein		Ammonia	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 184 47	< 0.001	0.001	0.00010			0.06	0.24	0.020	0.01
EQT 187 71									
EQT 188 TK-7911									
FUG 008 FE-FCC	0.03	0.05	0.015	0.01	0.05				0.33
									142

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Antimony (and compounds)			Arsenic (and compounds)			Barium (and compounds)			Benzene			Beryllium (Table 51.1)		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 184 17	0.003	0.01	.001	0.003	0.01	.001	0.15	0.60	.066	0.06	0.23	.025	< 0.001	0.001	.0001
EQT 187 71															
EQT 188 TK-7911															
FUG 008 FE+CC													0.07	0.32	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

Biphenyl			Cadmium (and compounds)			Carbon disulfide			Chlorine			Chromium VI (and compounds)				
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 184 47				0.005	0.02	0.02	0.002	0.01	0.01	< 0.001	0.003	0.01	0.001	0.02	0.09	0.010
EQT 187 71																
EQT 188 TK-7911	< 0.001															
FUG 008 FE-FCC	0.02						< 0.001									

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

Copper (and compounds)			Cresol			Cumene			Dibutyl phthalate			Dichloromethane			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 184 47	0.01	0.03	0.03						0.01	0.03	0.03	0.0109	0.02	0.09	0.0109
EQT 187 71															
EQT 188 TK-7911	<	0.001	0.001												
FUG 008 FE-FCC				0.02		0.09	0.01		0.03						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

Ethyl benzene		Formaldehyde		Hydrochloric acid		Hydrogen sulfide		Lead compounds	
Subject Item	Avg lb/hr	Max lb/hr	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr
EQT 184 47	0.001	0.003	<	0.001	<	0.001	0.01	0.02	0.02
EQT 187 71									< 0.001
EQT 188 TK7911	< 0.001		< 0.001						0.001
FUG 008 FE-FCC	0.07		0.30					0.04	0.13

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

Manganese (and compounds)				Mercury (and compounds)				Methanol				Methyl Tertiary Butyl Ether				Methyl ethyl ketone			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 184 47	0.02	0.08	0.009	0.003	0.01	0.01													
EQT 187 71																			
EQT 188 TK-7911																			
FUG 008 FE-FCC							0.25		0.008				0.003		0.022	0.02		0.010	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

Methyl Isobutyl Ketone			Naphthalene (and Methyl naphthalenes)			Nickel (and compounds)			Phenol			Polynuclear Aromatic Hydrocarbons			
Subject Item	Avg Ib/hr	Max Ib/hr	Tons/Year	Avg Ib/hr	Max Ib/hr	Tons/Year	Avg Ib/hr	Max Ib/hr	Tons/Year	Avg Ib/hr	Max Ib/hr	Tons/Year	Avg Ib/hr	Max Ib/hr	Tons/Year
EQT 184 47			0.004	0.02	0.002	0.002	0.09	0.34	0.038	0.04	0.14	0.05	0.003	0.01	0.001
EQT 187 71							0.01	0.05	0.011						
EQT 188 TK-7911	< 0.001			< 0.0001						< 0.001					
FUG 008 FE-FCC	< 0.001	0.13	0.002	< 0.001	0.05	< 0.001	0.001	0.04	0.001	0.04	0.12	0.001			

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

Quinoline			Selenium (and compounds)			Styrene			Sulfuric acid			Tetrachloroethylene			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 184 47		0.03	0.14	0.015					9.96	25.24		4364			
EQT 187 71															
EQT 188 TK-7911															
FUG 008 FE-FOC	< 0.001	0.0001				0.004	0.002			< 0.001	0.001				

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

Toluene			Trichloroethylene			Xylene (mixed isomers)			bis(2-ethylhexyl)phthalate			n-Hexane			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 184 47	0.01	0.04	0.05				0.01	0.04	0.05	0.01	0.04	0.04			
EQT 187 71															
EQT 188 TK-7911	< 0.001		0.001				< 0.001		0.001				< 0.001	0.001	0.001
FUG 008 FE-FCC	0.33		146	< 0.001		0.001	0.46		203				0.28		122

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

1,3-Butadiene: 0.15 tons/yr

Acetaldehyde: 0.26 tons/yr

Acrolein: 0.01 tons/yr

Ammonia: 1.50 tons/yr

Antimony (and compounds): 0.01 tons/yr

Arsenic (and compounds): 0.01 tons/yr

Barium (and compounds): 0.66 tons/yr

Benzene: 0.57 tons/yr

Beryllium (Table 51.1): 0.001 tons/yr

Biphenyl: 0.07 tons/yr

bis(2-ethylhexyl)phthalate: 0.04 tons/yr

Cadmium (and compounds): 0.02 tons/yr

Carbon disulfide: 0.01 tons/yr

Chlorine: 0.01 tons/yr

Chromium VI (and compounds): 0.10 tons/yr

Copper (and compounds): 0.03 tons/yr

Cresol: 0.09 tons/yr

Cumene: 0.03 tons/yr

Dibutyl phthalate: 0.03 tons/yr

Dichloromethane: 0.09 tons/yr

Ethyl benzene: 0.30 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

All phases

Formaldehyde: <0.001 tons/yr
Hydrochloric acid: 0.02 tons/yr
Hydrogen sulfide: 0.18 tons/yr
Lead compounds: 0.09 tons/yr
Manganese (and compounds): 0.09 tons/yr
Mercury (and compounds): 0.01 tons/yr
Methanol: 1.08 tons/yr
Methyl ethyl ketone: 0.10 tons/yr
Methyl isobutyl ketone: 0.0002 tons/yr
Methyl Tertiary Butyl Ether: 0.02 tons/yr
n-Hexane: 1.22 tons/yr
Naphthalene (and Methyl naphthalenes): 0.58 tons/yr
Nickel (and compounds): 0.39 tons/yr
Phenol: 0.32 tons/yr
Polynuclear Aromatic Hydrocarbons: 0.01 tons/yr
Quinoline: <0.001 tons/yr
Styrene: 0.02 tons/yr
Sulfuric acid: 43.64 tons/yr
Tetrachloroethylene: 0.001 tons/yr
Toluene: 1.51 tons/yr
Trichloroethylene: <0.001 tons/yr
Xylene (mixed isomers): 2.08 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-Y0

Air - Title V Regular Permit Initial

EQT183 45, FCC Heater (F-7801)

- 1 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.110.1.B]
- 2 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- 3 Which Months: All Year Statistical Basis: None specified
Sulfur dioxide <= 2000 ppmv at standard conditions. Shall comply with all the applicable requirements of 40 CFR 60, Subpart J. [LAC 33:III.1503.C]
- 4 Which Months: All Year Statistical Basis: Three-hour average
Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 5 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 6 Conduct a performance/emissions test: Due within 180 days after the issuance of initial Part 70 permit. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Other methods in 40 CFR 60.106 may be utilized for the above referenced methods if applicable. [LAC 33:III.501.C.6]
- 7 Fuel gas: Hydrogen sulfide <= 0.10 gr/dscf (230 mg/dscm) or less than 160 ppm on a three hour rolling average.
- 8 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. The span of the analyzer shall be 400 ppm. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- 9 Which Months: All Year Statistical Basis: None specified
Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 10 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 11 Permittee shall comply with all the applicable recordkeeping and reporting requirements of 40 CFR 60.107. [40 CFR 60.107]

EQT184 47, FCC Regenerator Flue Gas Scrubber Vent

- 12 Opacity <= 30 percent, except for one six-minute average opacity reading in any one hour period. [LAC 33:III.1311.D]
Which Months: All Year Statistical Basis: Six-minute average
- 13 Sulfur dioxide <= 2000 ppmv at standard conditions. Shall comply with all the applicable requirements of 40 CFR 60, Subpart J. [LAC 33:III.1503.C]
- 14 Do not emit the carbon monoxide waste gas stream from any catalyst regeneration of a petroleum cracking system, petroleum fluid coker, or other petroleum process into the atmosphere unless the waste gas stream is burned in a direct flame afterburner or boiler or is controlled by other means approved by DEQ. [LAC 33:III.1705]
- 15 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]

SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-Y0

Air - Title V Regular Permit Initial

EQT184 47, FCC Regenerator Flue Gas Scrubber Vent

- 16 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 17 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 18 Conduct a performance/emissions test: Due within 180 days after the issuance of initial Part 70 permit. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Other methods in 40 CFR 60.106 may be utilized for the above referenced methods if applicable. [LAC 33:III.501.C.6]
- 19 Compliance with all the applicable requirements of 40 CFR 63, Subpart UUU is considered compliance with the requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 20 Total suspended particulate <= 1 kg/Mg (2.0 lb/ton) of coke burn-off, except as specified in 40 CFR 60.102(b). Subpart J. [40 CFR 60.102(a)(1)]
 - Which Months: All Year Statistical Basis: None specified
 - 21 Opacity <= 30 percent, except for one six-minute average opacity reading in any one hour period. Subpart J. [40 CFR 60.102(a)(2)]
 - Which Months: All Year Statistical Basis: Six-minute average
 - 22 Carbon monoxide <= 500 ppmv (dry basis). Subpart J. [40 CFR 60.103(a)]
 - Which Months: All Year Statistical Basis: None specified
 - 23 Sulfur dioxide >= 90 % reduction; or Sulfur dioxide <= 50 ppmv, whichever is less stringent. Subpart J. [40 CFR 60.104(b)(1)]
 - Which Months: All Year Statistical Basis: Seven-day rolling average
 - 24 Use the procedures in 40 CFR 60.105(a)(12)(i) and (ii) to evaluate the continuous monitoring systems under 40 CFR 60.105(a)(8), (a)(9), and (a)(10). Subpart J. [40 CFR 60.105(a)(12)]
 - 25 Rc & operating hours recordkeeping by electronic or hard copy daily. Record the average coke burn-off rate (Mg (tons) per hour) and hours of operation. Subpart J. [40 CFR 60.105(c)]
 - 26 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
 - 27 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
 - 28 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 60.107(b)(1) through (b)(4), as applicable. Subpart J. [40 CFR 60.107(b)]
 - 29 Submit exceedance report: Due semiannually, except as specified in 40 CFR 60.107(d). Include the information specified in 40 CFR 60.107(c)(1) through (c)(6). Subpart J. [40 CFR 60.107(c)]
 - 30 Permittee shall comply with all the applicable recordkeeping and reporting requirements of 40 CFR 60.107. [40 CFR 60.107]
 - 31 After conducting the initial performance test prescribed under 40 CFR 60.8, conduct a performance test for each successive 24-hour period thereafter, according to the appropriate procedures specified under 40 CFR 60.106. Subpart J. [40 CFR 60.108(d)]
 - 32 Begin conducting daily performance tests as specified under 40 CFR 60.108(d) immediately upon electing to become subject to one of the provisions of 40 CFR 60.104(b), if initially demonstrating compliance with one of the provisions of 40 CFR 60.104(b) but at a later date seeks to comply with another of the provisions of 40 CFR 60.104(b). Furnish DEQ with a written notification of the change in the semiannual report required by 40 CFR 60.107(e). Subpart J. [40 CFR 60.108(e)]

SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-V0

Air - Title V Regular Permit Initial

EQT184 47, FCC Regenerator Flue Gas Scrubber Vent

33 Permittee is currently under negotiation with EPA for an alternative monitoring plan (AMP) for the FCC Regenerator Flue Gas Scrubber Vent. The permittee shall comply with all the applicable requirements of 40 CFR 60, Subpart J in the interim period and shall apply for a modification of this permit to incorporate the approved AMP with 90 days of the approval of the AMP by the EPA. [40 CFR 60,Subpart J, 40 CFR 63,1564(a)(1)]

EQT185 48, FCC Regenerator Aux. Burner (F-7802)

34 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

35 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

36 Sulfur dioxide <= 2000 ppm at standard conditions. Shall comply with all the applicable requirements of 40 CFR 60, Subpart J. [LAC 33:III.1503.C]

Which Months: All Year Statistical Basis: Three-hour average

37 Fuel gas: Hydrogen sulfide <= 0.10 gr/dscf (230 mg/dscm) or less than 160 ppm on a three hour rolling average. Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average

38 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. The span of the analyzer shall be 400 ppm. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified

39 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

40 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

41 Permittee shall comply with all the applicable recordkeeping and reporting requirements of 40 CFR 60.107. [40 CFR 60.107]

EQT186 49, Alky Isostripper Reboiler (F-7901)

42 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

43 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: Three-hour average

44 Sulfur dioxide <= 2000 ppm at standard conditions. Shall comply with all the applicable requirements of 40 CFR 60, Subpart J. [LAC 33:III.1503.C]

Which Months: All Year Statistical Basis: Three-hour average

45 Fuel gas: Hydrogen sulfide <= 0.10 gr/dscf (230 mg/dscm) or less than 160 ppm on a three hour rolling average. Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average

46 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. The span of the analyzer shall be 400 ppm. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified

47 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

48 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

SPECIFIC REQUIREMENTS

AI ID: 1376 - ChaImette Refining LLC - ChaImette Refinery
Activity Number: PER19960013
Permit Number: 3022-V0

Air - Title V Regular Permit Initial

EQT186 49, Alky Isostripper Reboiler (F-7901)

49 Permittee shall comply with all the applicable recordkeeping and reporting requirements of 40 CFR 60.107. [40 CFR 60.107]

EQT187 71, FCC-Alky Catalyst Handling

50 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

51 Shall comply with all the applicable requirements of LAC 33:III.Chapter 51. No additional controls are required. [LAC 33:III.5109.A]

EQT188 TK-7911, Chemical Tank

52 Group 2: Comply with the recordkeeping and reporting provisions in 40 CFR 61.654(i). Subpart CC. [40 CFR 63.654(i)]

EQT189 FCC-Miscellaneous Process Vents

53 Control process gas streams by flaring or combustion. Emissions routed to Flare No. 2, Permit No. 30116-V0. [LAC 33:III.1509]

54 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart CC is considered compliance with the requirements of LAC 33:III.5109.A. [LAC 33:III.5109.A]

55 Reduce emissions of organic HAPs using a flare that meets the requirements of 40 CFR 63.11(b). Emissions routed to Flare No. 2, Permit No. 30116-V0. Subpart CC. [40 CFR 63.643(a)(1)]

EQT190 C-7948, Disulfide Separator Vent

56 Emission routed to Alky Isostripper Reboiler, EQT186. [LAC 33:III.501.C.6]

FUG008 FE-FCC, FCC-AIKY Process Fugitives

57 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]

58 The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: A) Changes in components involve routine maintenance or are undertaken to address safety concerns or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; B) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; C) Actual emissions following the changes will not exceed the emission limits contained in this permit; and D) The components are promptly incorporated into any applicable leak detection and repair program. [LAC 33:III.5109.A]

59 Comply with the requirements of 40 CFR 60.482-1 to 482-10 as per approval letter dated March 24, 2005 by LDEQ. Subpart GGG. [40 CFR 60.592(a)]

60 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart CC is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [40 CFR 63.640-655, LAC 33:III.5109.A]

61 Comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR part 61, subpart FF, except as provided in 40 CFR 63.647(b). Subpart CC. [40 CFR 63.647(a)]

62 Comply with the requirements of 40 CFR 63.161 through 63.169, 63.171, 63.172, 63.175, 63.176, 63.177, 63.179, and 63.180 except as specified in 40 CFR 63.648(c)(1) through (c)(10) and (e) through (i). Subpart CC. [40 CFR 63.648(c)]

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AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

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FUG008 FE-FCC, FCC-AIkY Process Fugitives

- 63 Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- 64 Comply with the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.357 of 40 CFR 61 Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.654(a)]
- 65 Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]

GRP031 FCC-AIkY Units

- 66 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 67 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 68 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 69 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7 [LAC 33:III.1305]
- 70 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 71 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A-1-5. [LAC 33:III.2113.A]
- 72 Control emissions of VOC from steam jet ejectors and mechanical pumps by one of the applicable methods specified in LAC 33:III.2115.A, B, and F. Determine compliance and keep records as specified in LAC 33:III.2115.I, J, and K. [LAC 33:III.2139.A]
- 73 Control emissions of VOC from a hot-well with a contact condenser by covering the hot-well and controlling the vapors by one of the applicable methods specified in LAC 33:III.2115.A, B, and F. Determine compliance and keep records as specified in LAC 33:III.2115.I, J, and K. [LAC 33:III.2139.B]
- 74 Control emissions of volatile organic compounds from petroleum refinery process unit turnarounds by pumping the liquid contents to storage and depressurizing the processing units to five psig (pounds per square inch gauge) or below before venting to the atmosphere. Control the vapors during the depressurization prior to venting to atmosphere by one of the applicable methods specified in LAC 33:III.2115.A, B, and F. [LAC 33:III.2141.A]
- 75 Keep records and determine compliance as specified in LAC 33:III.2115.I, J, and K. [LAC 33:III.2141.A]
- 76 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.2119]
- 77 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 78 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 79 Carbon monoxide <= 309.09 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 80 Nitrogen oxides <= 467.65 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

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GRP031

FCC-Alky Units

- 81 Particulate matter (10 microns or less) <= 83.41 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 82 Sulfur dioxide <= 66.84 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 83 VOC, Total <= 170.56 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 84 1,3-Butadiene <= 0.15 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 85 Acetaldehyde <= 0.26 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 86 Acrolein <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 87 Ammonia <= 1.50 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 88 Arsenic (and compounds) <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 89 Barium (and compounds) <= 0.66 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 90 Benzene <= 0.57 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 91 Beryllium (Table 51.1) <= 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 92 Biphenyl <= 0.07 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 93 bis(2-ethylhexyl)phthalate <= 0.04 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 94 Cadmium (and compounds) <= 0.02 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 95 Carbon disulfide <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 96 Chlorine <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 97 Chromium VI (and compounds) <= 0.10 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 98 Copper (and compounds) <= 0.03 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 99 Cresol <= 0.09 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 100 Curnene <= 0.03 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

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GRP031 FCC-Akyl Units

- 101 Dibutyl phthalate <= 0.03 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 102 Ethyl benzene <= 0.30 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 103 Formaldehyde < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 104 Hydrochloric acid <= 0.02 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 105 Hydrogen sulfide <= 0.18 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 106 Lead compounds <= 0.09 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 107 Manganese (and compounds) <= 0.09 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 108 Mercury (and compounds) <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 109 Methanol <= 1.08 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 110 Methyl ethyl ketone <= 0.10 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 111 Methyl isobutyl ketone <= 0.002 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 112 Methyl Tertiary Butyl Ether <= 0.02 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 113 Naphthalene (and Methyl naphthalenes) <= 0.58 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 114 n-Hexane <= 1.22 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 115 Nickel (and compounds) <= 0.39 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 116 Phenol <= 0.32 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 117 Polynuclear Aromatic Hydrocarbons <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 118 Quinoline < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 119 Styrene <= 0.02 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 120 Sulfuric acid <= 43.64 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

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GRP031 FCC-Airy Units

- 121 Tetrachloroethylene <= 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 122 Toluene <= 1.51 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 123 Trichloroethylene < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 124 Xylene (mixed isomers) <= 2.08 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 125 Dichloromethane <= 0.09 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 126 Antimony (and compounds) <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 127 Until a settlement is reached with EPA and LDEQ on related air quality issues, the permittee shall operate all emission sources in compliance with the interim or permitted emission limitations, monitoring and reporting requirements contained in Appendix A of the Administrative Order on Consent dated May 25, 2005 in lieu of the emission limitations and associated requirements contained in Preventive Significant Deterioration Permit No. PSD-LA-199. Upon completion of a settlement on the related issues with EPA and LDEQ, the permittee shall, within three (3) months after issuance of all of the Part 70 permits for the entire refinery, submit an application to revise and update PSD-LA-199 to incorporate the settlement requirements in their entirety. [LAC 33:III.509, 40 CFR 52.21]
- 128 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 129 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 130 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 131 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 132 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 133 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.B.1]
- 134 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 135 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.2]

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- 136 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:1.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.5107.B.3.]
- 137 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.i through viii. [LAC 33:III.5107.B.4]
- 138 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 139 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 140 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112. Table 51.2. [LAC 33:III.5109.B]
- 141 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 142 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 143 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 144 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 145 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 146 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 147 Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e. [LAC 33:III.5113.B.4]
- 148 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 149 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 150 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 151 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 152 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 153 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]

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- 154 Submit performance evaluation report. Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 155 Submit notification in writing. Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 156 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 157 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 158 Submit report. Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 159 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 160 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 161 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 162 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 163 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1.f]
- 164 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 165 Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 166 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 167 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 168 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 169 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 170 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 171 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]

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GRP031 FCC-Alky Units

- 172 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 173 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 174 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]
- 175 Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits. [LAC 33:III.913]
- 176 Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations. [LAC 33:III.917.A]
- 177 No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety. [LAC 33:III.917.B]
- 178 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 179 Permittee shall comply with all the applicable requirements for the stack height as specified in LAC 33:III.921. [LAC 33:III.921]
- 180 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:III.13925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33:III.927]
- 181 No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded. [LAC 33:III.929.A]
- 182 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 183 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]
- 184 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 185 Benzene: Permittee shall comply with all the applicable requirements of the alternative requirements of paragraphs 40 CFR 61.342(c) and (d). The permittee shall manage and treat facility waste with a flow weighted annual average water content of less than 10 percent in accordance with 40 CFR 61.342(c)(1). The benzene quantity for the wastes described in 40 CFR 61.342(e)(2) shall be equal to or less than 6.6 tons per year, as determined in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.342(e)]
- 186 Permittee shall comply with all the applicable recordkeeping requirements as stated in 40 CFR 61.356 and all the applicable reporting requirements of 40 CFR 61.357. Subpart FF. [40 CFR 61.356(a)(4), 40 CFR 61.357]
- 187 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 188 Submit Notification of the intention to conduct a performance test: Due at least 30 days before the performance test is scheduled. Subpart CC. [40 CFR 63.642(d)(2)]
- 189 Conduct performance tests according to the provisions of 40 CFR 63.7(e), except conduct performance tests at maximum representative operating capacity for the process. During the performance test, operate the control device at either maximum or minimum representative operating conditions for monitored control device parameters, whichever results in lower emission reduction. Subpart CC. [40 CFR 63.642(d)(3)]

SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960013

Permit Number: 3022-Y0

Air - Title V Regular Permit Initial

GRP031

FCC-Alky Units

- 190 Keep copies of all applicable reports and records required by 40 CFR 63 Subpart CC for at least 5 years except as otherwise specified in 40 CFR 63 Subpart CC. Maintain all applicable records in such a manner that they can be readily accessed within 24 hours. Subpart CC. [40 CFR 63.642(e)]
- 191 Control emissions of organic HAPs to the level represented by the equation in 40 CFR 63.642(g). Subpart CC. [40 CFR 63.642(g)]
- 192 Control emissions of organic HAPs to the level represented by the equation in 40 CFR 63.642(g). Subpart CC. [40 CFR 63.642(h)]
- 193 Submit Notification of Compliance Status: Due within 150 days after the compliance dates specified in 40 CFR 63.640(h). Include the information specified in 40 CFR 63.654(f)(1) through (f)(5). Subpart CC. [40 CFR 63.654(f)]
- 194 Submit Periodic Report: Due no later than 60 days after the end of each 6-month period when any of the compliance exceptions specified in 40 CFR 63.654(g)(1) through (g)(6) occur. Include the information specified in 40 CFR 63.654(g)(1) through (g)(8). Subpart CC. [40 CFR 63.654(g)]
- 195 Submit reports of startup, shutdown, and malfunction required by 40 CFR 63.10(d)(5). Subpart CC. [40 CFR 63.654(h)(1)]
- 196 Submit the information specified in 40 CFR 63.654(h)(6)(i) through (iii), as applicable. Subpart CC. [40 CFR 63.654(h)(6)]
- 197 Retain a record of all reported performance test results required under 40 CFR 63.654(f) and (g)(7) as well as a complete test report, as described in 40 CFR 63.654(f)(2)(ii) for each emission point tested. Subpart CC. [40 CFR 63.654(i)(2)]
- 198 Retain all information required to be reported under 40 CFR 63.654(a) through (h) for five years. Subpart CC. [40 CFR 63.654(i)(4)]
- 199 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 200 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 201 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 202 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 203 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 204 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82. Subpart F]